

ENERGY STUDY

Project Details

Project No. 3033.00
 Year of Completion Ongoing

Project Team

Industry Partners CMHC
 HPO
 Terasen Gas
 BC Hydro
 Fortis BC
 City of Vancouver
 Enersys Analytics

RDH Staff

Principal Warren Knowles
 Key Staff Eric Burnett
 Graham Finch

Project Description

Sponsored by government and industry parties, this project was undertaken to determine the impacts of building enclosure rehabilitation on the energy consumption of high-rise residential buildings.

The ongoing rehabilitation of numerous residential buildings throughout the Pacific Northwest provides a unique opportunity for RDH to investigate the contrasting energy efficiencies of pre and post rehabilitated building enclosures.

This study examines the benefits of building enclosure improvements such as increased thermal insulation, thermally improved window frames and glazing, and increased air tightness in reducing the overall consumption of energy. It also provides a unique opportunity to examine the energy consumption impact of other building systems including data captured by local gas and electric utility providers. The long-term cost savings for owners and occupants will also be assessed to support the study.

As a result, better building enclosure design strategies can be developed with a focus on improving energy conservation and the reduction of greenhouse gas emissions in new and rehabilitated buildings.



Project Profile

